

## Storm Data and Unusual Weather Phenomena - September 2014

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details       |
|---|--------------------|-------------------|---------------------|------------------------------|
| <b>INDIANA, Northeast</b>   |                    |                   |                     |                              |
| <b>MARSHALL COUNTY --- BOURBON [41.30, -86.12]</b>  |                    |                   |                     |                              |
|   | 09/05/14 16:40 EST |                   | 0                   | Hail (1.00 in)               |
|   | 09/05/14 16:41 EST |                   | 0                   | Source: Public               |
| <b>WHITE COUNTY --- 1.6 W BUFFALO [40.88, -86.76]</b>   |                    |                   |                     |                              |
|   | 09/05/14 16:42 EST |                   | 0                   | Hail (1.50 in)               |
|   | 09/05/14 16:43 EST |                   | 0                   | Source: Trained Spotter      |
| Hail to one and one half inch diameter fell.  |                    |                   |                     |                              |
| <b>KOSCIUSKO COUNTY --- ETNA GREEN [41.28, -86.05]</b>  |                    |                   |                     |                              |
|   | 09/05/14 16:50 EST |                   | 0                   | Hail (1.00 in)               |
|   | 09/05/14 16:51 EST |                   | 0                   | Source: Public               |
| <b>KOSCIUSKO COUNTY --- ETNA GREEN [41.28, -86.05]</b>  |                    |                   |                     |                              |
|   | 09/05/14 16:51 EST |                   | 0                   | Hail (0.75 in)               |
|   | 09/05/14 16:52 EST |                   | 0                   | Source: Trained Spotter      |
| <b>WHITE COUNTY --- 0.9 SW WOLCOTT [40.76, -87.04]</b>  |                    |                   |                     |                              |
|   | 09/05/14 16:55 EST |                   | 0                   | Hail (0.75 in)               |
|   | 09/05/14 16:56 EST |                   | 0                   | Source: Emergency Manager    |
| <b>KOSCIUSKO COUNTY --- 0.7 N REDMOND PARK [41.39, -85.78]</b>  |                    |                   |                     |                              |
|   | 09/05/14 17:08 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt) |
|   | 09/05/14 17:09 EST |                   | 0                   | Source: State Official       |
| Local officials reported treed were blown down at the intersection of County Roads 1050 North and 350 East. |                    |                   |                     |                              |
| <b>KOSCIUSKO COUNTY --- 0.9 SW ATWOOD [41.26, -85.99]</b>   |                    |                   |                     |                              |
|   | 09/05/14 17:08 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt) |
|   | 09/05/14 17:09 EST |                   | 0                   | Source: State Official       |
| Local officials reported trees were blown down onto Old U.S. 30 between County Roads 750 and 800 West.      |                    |                   |                     |                              |
| <b>KOSCIUSKO COUNTY --- 2.2 WSW REDMOND PARK [41.37, -85.82]</b>  |                    |                   |                     |                              |
|   | 09/05/14 17:08 EST |                   | 0                   | Thunderstorm Wind (EG 50 kt) |
|   | 09/05/14 17:09 EST |                   | 0                   | Source: NWS Employee         |
| An off duty NWS employee reported several large tree limbs down in the area.                                |                    |                   |                     |                              |
| <b>WHITE COUNTY --- 0.5 W MONON [40.87, -86.88]</b>   |                    |                   |                     |                              |
|   | 09/05/14 17:10 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt) |
|   | 09/05/14 17:11 EST |                   | 0                   | Source: Emergency Manager    |
| Emergency management officials reported several trees down in the area.                                     |                    |                   |                     |                              |
| <b>KOSCIUSKO COUNTY --- 0.7 N NORTH WEBSTER [41.33, -85.70]</b>   |                    |                   |                     |                              |
|   | 09/05/14 17:14 EST |                   | 0                   | Hail (0.75 in)               |
|   | 09/05/14 17:15 EST |                   | 0                   | Source: Public               |
| <b>LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]</b>   |                    |                   |                     |                              |
|   | 09/05/14 17:20 EST |                   | 0                   | Hail (1.00 in)               |
|   | 09/05/14 17:21 EST |                   | 0                   | Source: Public               |
| <b>NOBLE COUNTY --- 0.5 W LIGONIER [41.47, -85.59]</b>  |                    |                   |                     |                              |

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|          | 09/05/14 17:26 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt) |
|          | 09/05/14 17:27 EST |                   | 0                   | Source: Emergency Manager    |

Emergency management officials reported trees and tree limbs down.

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### STEUBEN COUNTY --- 0.5 E NEVADA MILLS [41.73, -85.07]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/05/14 18:15 EST | 0 | Thunderstorm Wind (EG 50 kt) |
| 09/05/14 18:16 EST | 0 | Source: Emergency Manager    |

Emergency management officials reported a tree was blown down just south of Highway 120.

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### STEUBEN COUNTY --- ANGOLA [41.63, -85.00]

|                    |   |                |
|--------------------|---|----------------|
| 09/05/14 18:24 EST | 0 | Hail (1.00 in) |
| 09/05/14 18:25 EST | 0 | Source: Public |

Hail lasted for three minutes at the Angola High School.

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### STEUBEN COUNTY --- ANGOLA [41.63, -85.00]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/05/14 18:24 EST | 0 | Thunderstorm Wind (MG 51 kt) |
| 09/05/14 18:25 EST | 0 | Source: Public               |

The public recorded a 59 mph wind gust.

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### CASS COUNTY --- 0.7 S ROYAL CENTER [40.86, -86.50]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/05/14 19:12 EST | 0 | Thunderstorm Wind (EG 52 kt) |
| 09/05/14 19:13 EST | 0 | Source: Emergency Manager    |

Emergency management officials reported wind gusts to 60 mph and several four to five inch diameter tree limbs down.

**A cold front moves across the region, interacting with surface based CAPE values in excess of 5000 j/kg and abundant low level moisture. Shear through much of the atmosphere was lacking across the area, resulting in marginally severe thunderstorms with occasional downbursts producing isolated wind damage or large hail incidents.**

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### LA PORTE COUNTY --- 2.1 E WANATAH [41.43, -86.86]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 14:26 CST | 0 | Thunderstorm Wind (EG 50 kt) |
| 09/20/14 14:27 CST | 0 | Source: Public               |

Reports of six tree limbs being blown down were received.

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### LA PORTE COUNTY --- WANATAH [41.43, -86.90]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 14:26 CST | 0 | Thunderstorm Wind (EG 60 kt) |
| 09/20/14 14:27 CST | 0 | Source: Trained Spotter      |

A trained spotter reported a large tree was blown down across a local roadway.

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### STARKE COUNTY --- 9.9 NNW KOONTZ LAKE [41.55, -86.58]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 14:43 CST | 0 | Thunderstorm Wind (EG 61 kt) |
| 09/20/14 14:44 CST | 0 | Source: Public               |

Wind gusts were estimated to 70 mph.

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### STARKE COUNTY --- 9.9 NNW KOONTZ LAKE [41.55, -86.58]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 14:43 CST | 0 | Thunderstorm Wind (EG 65 kt) |
| 09/20/14 14:44 CST | 0 | Source: Emergency Manager    |

Emergency management officials reported numerous trees uprooted or snapped across the town . One of the uprooted trees ruptured a natural gas line, resulting in the evacuation of three residences in the area. Several tree branches were reported down with some onto vehicles. No injuries were reported with any of the damage.

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### ST. JOSEPH COUNTY --- 2.9 WSW RUPEL [41.58, -86.43]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 15:53 EST | 0 | Thunderstorm Wind (EG 70 kt) |
| 09/20/14 15:54 EST | 0 | Source: Amateur Radio        |

## Storm Data and Unusual Weather Phenomena - September 2014

| Location  | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details            |
|---|--------------------|-------------------|---------------------|-----------------------------------|
| Amateur radio operators reported a two foot diameter tree was blown down with estimated wind gusts of 70 to 80 mph.   |                    |                   |                     |                                   |
| <b>MARSHALL COUNTY --- 0.9 SE PLYMOUTH [41.34, -86.31]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 15:57 EST |                   | 0                   | Thunderstorm Wind (EG 60 kt)      |
|   | 09/20/14 15:58 EST |                   | 0                   | Source: Emergency Manager         |
| Emergency management officials reported a tree was blown down on the 300 block of South Michigan.   |                    |                   |                     |                                   |
| <b>MARSHALL COUNTY --- 0.9 SE PLYMOUTH [41.34, -86.31]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:00 EST |                   | 0                   | Thunderstorm Wind (EG 60 kt)      |
|   | 09/20/14 16:01 EST |                   | 0                   | Source: Emergency Manager         |
| Emergency management officials reported a tree was blown down onto a vehicle at the intersection of US -31 and County Road 9A. There were reports of injuries with the initial call, but no further details could be found. |                    |                   |                     |                                   |
| <b>MARSHALL COUNTY --- BREMEN [41.45, -86.15]</b>   |                    |                   |                     |                                   |
|   | 09/20/14 16:14 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt)      |
|   | 09/20/14 16:15 EST |                   | 0                   | Source: Emergency Manager         |
| Emergency management officials reported a tree was blown down on South Washington Street.   |                    |                   |                     |                                   |
| <b>ELKHART COUNTY --- GOSHEN [41.58, -85.83]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:27 EST |                   | 0                   | Thunderstorm Wind (EG 60 kt)      |
|   | 09/20/14 16:28 EST |                   | 0                   | Source: Trained Spotter           |
| A trained spotter reported trees and power lines down on State Route 15 in both Waterford Mills and the south side of Goshen.   |                    |                   |                     |                                   |
| <b>ELKHART COUNTY --- GOSHEN [41.58, -85.83]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:34 EST |                   | 0                   | Hail (0.75 in)                    |
|   | 09/20/14 16:35 EST |                   | 0                   | Source: Amateur Radio             |
| <b>NOBLE COUNTY --- LIGONIER [41.47, -85.58]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:41 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt)      |
|   | 09/20/14 16:42 EST |                   | 0                   | Source: State Official            |
| Local officials reported a large tree was blown down onto a local residence. No injuries were reported and no monetary details were available.  |                    |                   |                     |                                   |
| <b>KOSCIUSKO COUNTY --- 2.8 N NORTH WEBSTER [41.36, -85.70]</b>   |                    |                   |                     |                                   |
|   | 09/20/14 16:42 EST |                   | 0                   | Thunderstorm Wind (EG 52 kt)      |
|   | 09/20/14 16:43 EST |                   | 0                   | Source: Official NWS Observations |
| Wind gusts were estimated to 60 mph at the NWS office north of North Webster.   |                    |                   |                     |                                   |
| <b>NOBLE COUNTY --- 1.7 NE COSPERVILLE [41.50, -85.45]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:46 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt)      |
|   | 09/20/14 16:47 EST |                   | 0                   | Source: State Official            |
| Local officials reported a large tree was blown down at County Road 125 West and 1050 North.  |                    |                   |                     |                                   |
| <b>NOBLE COUNTY --- 2.2 WSW WAWAKA [41.46, -85.52]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:50 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt)      |
|   | 09/20/14 16:51 EST |                   | 0                   | Source: State Official            |
| Local officials reported a large tree was blown down on County Road 525 West, south of US-6.  |                    |                   |                     |                                   |
| <b>NOBLE COUNTY --- 0.7 N WOLCOTTVILLE [41.53, -85.37]</b>  |                    |                   |                     |                                   |
|   | 09/20/14 16:51 EST |                   | 0                   | Thunderstorm Wind (EG 60 kt)      |
|   | 09/20/14 16:52 EST |                   | 0                   | Source: Public                    |
| Four trees were reported blown down at a local residence with the top of a fifth tree being broken off at the top.  |                    |                   |                     |                                   |
| <b>NOBLE COUNTY --- 2.1 SW ROME CITY [41.48, -85.41]</b>  |                    |                   |                     |                                   |

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|          | 09/20/14 16:53 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt) |
|          | 09/20/14 16:54 EST |                   | 0                   | Source: State Official       |

Local officials reported a large tree was blown down in the 9000 block of North Steinbarger Road.

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### NOBLE COUNTY --- 1.2 ENE KENDALLVILLE ARPT [41.49, -85.25]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 16:58 EST | 0 | Thunderstorm Wind (EG 55 kt) |
| 09/20/14 16:59 EST | 0 | Source: State Official       |

Local officials reported a large tree was blown down onto County Road 900 East north of Circle Drive.

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### WHITLEY COUNTY --- 1.4 N LORANE [41.22, -85.57]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 16:58 EST | 0 | Thunderstorm Wind (EG 52 kt) |
| 09/20/14 16:59 EST | 0 | Source: Emergency Manager    |

Emergency management officials estimated wind gusts to 60 mph at the intersection of County Roads 250 West and 700 North.

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### LAGRANGE COUNTY --- STROH [41.58, -85.20]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/20/14 17:00 EST | 0 | Thunderstorm Wind (EG 60 kt) |
| 09/20/14 17:01 EST | 0 | Source: Emergency Manager    |

Emergency management officials reported a 14 inch diameter tree was blown down.

**Moderate instability and deep layer shear was in place across the region ahead of upper level disturbance. Scattered thunderstorms developed in portions of eastern Illinois into Lake Michigan and moved east. Several storms exhibited bowing structures with locally stronger wind gusts in excess of 70 mph, causing widespread wind damage in several communities of western Indiana.**

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## LAKE MICHIGAN

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### NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]

|                    |   |                                     |
|--------------------|---|-------------------------------------|
| 09/05/14 16:00 EST | 0 | Marine Thunderstorm Wind (MG 42 kt) |
| 09/05/14 16:01 EST | 0 | Source: Buoy                        |

A buoy offshore from Cook Nuclear plant recorded a 48 mph wind gust.

**Thunderstorms developed over southern Lake Michigan ahead of a cold front. Gusty winds were recorded along the lake shore areas as the storms moved onshore.**

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### NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH GLOS STATION (SJOM4) [42.10, -86.49]

|                    |   |                                     |
|--------------------|---|-------------------------------------|
| 09/20/14 13:29 EST | 0 | Marine Thunderstorm Wind (MG 35 kt) |
| 09/20/14 13:30 EST | 0 | Source: C-MAN Station               |

A 40 mph wind gust was recorded at the Michigan City GLOS station.

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### MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCYI3) [41.73, -86.91]

|                    |   |                                     |
|--------------------|---|-------------------------------------|
| 09/20/14 14:25 EST | 0 | Marine Thunderstorm Wind (MG 40 kt) |
| 09/20/14 14:26 EST | 0 | Source: C-MAN Station               |

Wind gust measured at the Michigan City marine observation station.

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### NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]

|                    |   |                                     |
|--------------------|---|-------------------------------------|
| 09/20/14 14:40 EST | 0 | Marine Thunderstorm Wind (MG 36 kt) |
| 09/20/14 14:41 EST | 0 | Source: Buoy                        |

A 42 mph wind gust was recorded at a buoy located west of Cook Nuclear Plant.

**Moderate instability and deep layer shear was in place across the region ahead of upper level disturbance. Scattered thunderstorms developed in portions of eastern Illinois into Lake Michigan and moved east, causing strong wind gusts as they moved onshore.**

## Storm Data and Unusual Weather Phenomena - September 2014

| Location   | Date/Time          | Deaths & Injuries | Property & Crop Dmg | Event Type and Details         |
|--|--------------------|-------------------|---------------------|--------------------------------|
| <b>MICHIGAN, Extreme Southwest</b>   |                    |                   |                     |                                |
| <b>BERRIEN COUNTY --- 1.0 E EDGEWATER [42.12, -86.45]</b>  |                    |                   |                     |                                |
|  | 09/05/14 16:05 EST |                   | 0                   | Thunderstorm Wind (EG 50 kt)   |
|  | 09/05/14 16:06 EST |                   | 0                   | Source: Emergency Manager      |
| Emergency management officials reported several trees down in the area up to four inches in diameter.  |                    |                   |                     |                                |
| <b>ST. JOSEPH COUNTY --- STURGIS [41.80, -85.42]</b>   |                    |                   |                     |                                |
|  | 09/05/14 16:48 EST |                   | 0                   | Hail (1.00 in)                 |
|  | 09/05/14 16:49 EST |                   | 0                   | Source: Fire Department/Rescue |
| <b>ST. JOSEPH COUNTY --- STURGIS [41.80, -85.42]</b>   |                    |                   |                     |                                |
|  | 09/05/14 16:52 EST |                   | 0                   | Hail (1.00 in)                 |
|  | 09/05/14 16:53 EST |                   | 0                   | Source: Trained Spotter        |
| <b>BRANCH COUNTY --- 1.4 S LACKWOOD [41.86, -85.05]</b>  |                    |                   |                     |                                |
|  | 09/05/14 17:13 EST |                   | 0                   | Thunderstorm Wind (EG 50 kt)   |
|  | 09/05/14 17:14 EST |                   | 0                   | Source: Emergency Manager      |
| Emergency management officials reported a tree was blown down onto a local road.   |                    |                   |                     |                                |
| <b>HILLSDALE COUNTY --- 0.7 N ALLEN [41.96, -84.77]</b>  |                    |                   |                     |                                |
|  | 09/05/14 17:50 EST |                   | 0                   | Thunderstorm Wind (EG 50 kt)   |
|  | 09/05/14 17:51 EST |                   | 0                   | Source: Emergency Manager      |
| Emergency management officials reported a tree was blown down onto US-12 in Allen.   |                    |                   |                     |                                |
| <b>HILLSDALE COUNTY --- 0.9 SW LITCHFIELD [42.04, -84.76]</b>  |                    |                   |                     |                                |
|  | 09/05/14 17:50 EST |                   | 0                   | Thunderstorm Wind (EG 50 kt)   |
|  | 09/05/14 17:51 EST |                   | 0                   | Source: Emergency Manager      |
| Emergency management officials reported power lines down in the area.  |                    |                   |                     |                                |
| <b>CASS COUNTY --- 0.2 NNE DAILEY [41.88, -86.08]</b>  |                    |                   |                     |                                |
|  | 09/05/14 18:20 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt)   |
|  | 09/05/14 18:21 EST | 1                 | 0                   | Source: Law Enforcement        |
| Local law enforcement reported a tree was blown down onto a vehicle traveling on M-60, near Liberty Road. One of the two occupants in the vehicle was transported to the hospital with minor injuries.   |                    |                   |                     |                                |
| <b>CASS COUNTY --- EDWARDSBURG [41.80, -86.08]</b>   |                    |                   |                     |                                |
|  | 09/05/14 18:20 EST |                   | 0                   | Thunderstorm Wind (MG 51 kt)   |
|  | 09/05/14 18:21 EST |                   | 0                   | Source: Public                 |
| The public recorded at 59 mph wind gust.   |                    |                   |                     |                                |
| <b>A cold front moves across the region, interacting with surface based CAPE values in excess of 5000 j/kg and abundant low level moisture. Shear through much of the atmosphere was lacking across the area, resulting in marginally severe thunderstorms with occasional downbursts producing isolated large hail incidents.</b> |                    |                   |                     |                                |
| <b>HILLSDALE COUNTY --- 2.1 NW BANKERS [41.92, -84.73]</b>   |                    |                   |                     |                                |
|  | 09/20/14 17:31 EST |                   | 0                   | Thunderstorm Wind (MG 55 kt)   |
|  | 09/20/14 17:32 EST |                   | 0                   | Source: Trained Spotter        |
| A trained spotter measure a wind gust to 63 mph.   |                    |                   |                     |                                |
| <b>HILLSDALE COUNTY --- 0.5 E BANKERS [41.90, -84.69]</b>  |                    |                   |                     |                                |
|  | 09/20/14 17:39 EST |                   | 0                   | Thunderstorm Wind (EG 55 kt)   |
|  | 09/20/14 17:40 EST |                   | 0                   | Source: Emergency Manager      |
| Emergency management officials reported trees were blown down in the area.   |                    |                   |                     |                                |

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|----------|-----------|-------------------|---------------------|------------------------|
|----------|-----------|-------------------|---------------------|------------------------|

Moderate instability and deep layer shear was in place across the region ahead of upper level disturbance. Scattered thunderstorms developed in portions of eastern Illinois into Lake Michigan and moved east. Several storms exhibited bowing structures with pockets of wind damage across Hillsdale county.

### OHIO, Northwest

#### WILLIAMS COUNTY --- 1.2 NW PIONEER [41.69, -84.55]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/05/14 18:40 EST | 0 | Thunderstorm Wind (EG 55 kt) |
| 09/05/14 18:41 EST | 0 | Source: State Official       |

Local officials reported several trees were blown down onto power lines in the area.

#### WILLIAMS COUNTY --- 0.7 N WEST UNITY [41.59, -84.43]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/05/14 18:50 EST | 0 | Thunderstorm Wind (EG 50 kt) |
| 09/05/14 18:51 EST | 0 | Source: State Official       |

Local officials reported several down tree branches onto power lines in the area.

A cold front moves across the region, interacting with surface based CAPE values in excess of 5000 j/kg and abundant low level moisture. Shear through much of the atmosphere was lacking across the area, resulting in marginally severe thunderstorms with occasional downbursts producing isolated wind damage or large hail incidents.

#### VAN WERT COUNTY --- 2.6 E MIDDLE PT [40.85, -84.38]

|                    |   |                              |
|--------------------|---|------------------------------|
| 09/10/14 16:15 EST | 0 | Thunderstorm Wind (EG 55 kt) |
| 09/10/14 16:16 EST | 0 | Source: Emergency Manager    |

Emergency management officials reported a barn door was blown off with partial removal of roofing material . Localized damage to crops was also observed adjacent to the property.

Low pressure moved across Wisconsin during the afternoon hours with a strong southwesterly flow resulting in deep layer shear of over 60 knots. Despite the favorable wind fields, instability was limited due to extensive cloud cover. An isolated strong wind gusts caused some damage in Van Wert county.